

Material Safety Data Sheet

NANOMYTE[®] MEND-RT Part A

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE[®] MEND-RT Part A

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

This product is intended for use as a coating on plastics, metals, and other surfaces.

1.3 Details of the Supplier of the Safety Data Sheet

Company: NEI Corporation
Address: 400 Apgar Drive, Unit E
Somerset, NJ 08873 – USA
Phone: +1 (732) 868-3141
Fax: +1 (732) 868-3143
Email: productinfo@neicorporation.com

1.4 Emergency Telephone Number (during transportation)

ChemTel (North America): +1 (800) 255-3924 [Contract #MIS0008013]
ChemTel (International): +1 (813) 248-0585 (collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Emergency Overview

GHS Classification

Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure (Category 2), H373
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 2), H401

HMIS Classification

Health Hazard: 2
Chronic Health Hazard: *
Flammability Hazard: 3
Physical Hazard: 0

NFPA Rating

Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazard: 0

2.2 Label Elements

GHS Label Elements, including precautionary statements

Pictogram(s):



Signal Word: Danger

Material Safety Data Sheet

NANOMYTE® MEND-RT Part A

Hazard Statement(s):

- H225 Highly flammable liquid and vapor
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H301 + H311 + H331 Toxic if swallowed, in contact with skin, or if inhaled
- H361 Suspected of damaging fertility or the unborn child.
- H370 Causes damage to organs
- H373 May cause damage to organs through prolonged or repeated exposure.
- H351 Suspected of causing cancer.
- H401 Toxic to aquatic life

Precautionary Statement(s):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat / sparks / open flames / hot surfaces — no smoking
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust / fume / gas / mist / vapors / spray
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection, face protection
- P281 Use personal protective equipment as required.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P303 + P361 + P353 IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P331 Do NOT induce vomiting.
- P332 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

P412 Store at temperatures not exceeding 5 °C / 41 °F. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

COMPONENT NAME	CAS #	CONCENTRATION
Polyester polyol	67815-82-1	5 - 10 wt%
Propylene glycol monomethyl ether acetate	108-65-6	2 - 5 wt%
Trade Secret (1)	Proprietary	2 - 5 wt%
Toluene	108-88-3	40 - 45 wt%
THF	109-99-9	40 - 45 wt%
Dibutyltin dilaurate	77-58-7	< 1 wt%
Trade Secret (2)	Proprietary	< 1 wt%
Trade Secret (3)	Proprietary	< 1 wt%

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

After Inhalation:

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

After Skin Contact:

Wash off with soap and plenty of water. Seek medical attention.

After Eye Contact:

Immediately flush eyes copiously with water for at least 15 minutes. Seek medical attention.

After Swallowing:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (section 2.2) and/or in section 11

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No Data Available

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture

Hazardous fumes may be evolved upon exposure to heat or open flame. Hazardous decomposition products formed under fire conditions: Carbon oxides

5.3 Advice for Firefighters

Wear full protective clothing and self-contained breathing apparatus approved for firefighting. Do not breathe smoke, gases, or vapors generated.

5.4 Other Information

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat, sparks, open flame, or hot surfaces. No smoking.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment, and Emergency Procedures**

Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist, or gas. Keep unprotected persons away. Eliminate all sources of ignition or overheating. Beware of vapors accumulating to form explosive concentrations. Ventilate area and wash spill site after material pickup is complete.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state and federal regulations.

6.4 Reference to Other Sections

For safe handling, see Section 7; For personal protection, see Section 8; For disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for Safe Handling**

Appropriate personal protective equipment should be used at all times. Provide good ventilation or extraction. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapor or mist. Keep away from heat, sparks, flames and other sources of ignition.

7.2 Conditions for Safe Storage (including any incompatibilities)

Protect from moisture. Keep tightly sealed in original containers under dry, inert gas. Avoid storage above room temperature (25 °C / 77 °F) and contamination with incompatible materials. Keep away from heat, sparks, flames and other sources of ignition. Residual vapors might explode on ignition. Do not apply heat, cut, drill, and grind or weld on or near this container.

7.3 Specific End Uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control Parameters**

Component Name	ACGIH TLV (TWA)	Remarks
Polyester polyol	No data	No data
Propylene glycol monomethyl ether acetate	No data	No data
Trade Secret (1)	3-10 mg/m ³	As a raw material
Toluene	20 ppm	n/a
THF	50 ppm	n/a
Dibutyltin dilaurate	0.1 mg/m ³	n/a
Trade Secret (2)	20 ppm	n/a
Trade Secret (3)	25 mg/m ³	n/a

8.2 Exposure Controls**Appropriate Engineering Controls**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food and beverages. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and end of workday.

Personal Protective Equipment

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with appropriate respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye / Face Protection:

Face shield and/or safety glasses should be worn. Use eye protection equipment that is tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand Protection:

Handle with chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use.

Skin and Body Protection:

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties**

Form:	Liquid
Color:	Clear
Odor:	No Data Available
pH:	No Data Available
Melting point/range:	No Data Available
Density (20 °C):	0.9 - 1 g/ml
Viscosity (20 °C):	No Data Available
Boiling Point:	No Data Available
Flashpoint:	No Data Available
Ignition Temperature:	No Data Available
Auto-ignition Temperature:	No Data Available
Lower Explosion Limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Water Solubility:	Insoluble
Evaporation Rate:	No Data Available
Solids Content:	15%

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

No Data Available

10.2 Chemical Stability

Stable under recommended storage conditions (see Section 7.2)

10.3 Possibility of Hazardous Reactions

Vapors may form explosive mixture with air.

10.4 Conditions to Avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible Materials

Acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents, acids, ammonia, halogens, peroxides, aluminum, oxygen

10.6 Hazardous Decomposition Products

Under fire conditions: Carbon Oxides

Other decomposition products: No Data Available

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Acute Toxicity

Oral LD50: No Data Available

Inhalation LC50: No Data Available

Dermal LD50: No Data Available

Other Information: No Data Available

Skin corrosion/irritation

No Data Available

Serious eye damage/eye irritation

No Data Available

Respiratory or skin sensitization

No Data Available

Germ cell mutagenicity

No Data Available

Carcinogenicity

No Data Available

Reproductive toxicity

No Data Available

Teratogenicity

No Data Available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No Data Available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No Data Available

Aspiration hazard

No Data Available

Potential Health Affects

Inhalation: Refer to section 2

Ingestion: Refer to section 2

Skin: Refer to section 2

Eyes: Refer to section 2

Signs and Symptoms of Exposure

Effects due to inhalation may include: Central nervous system depression, narcosis, cough, chest pain, difficulty in breathing, exposure to high airborne concentrations can cause anesthetic effects.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

The toxicological properties of this material have not been fully investigated.

12.2 Persistence and Degradability

No Data Available

12.3 Bioaccumulative Potential

No Data Available

12.4 Mobility in Soil

No Data Available

12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not conducted

12.6 Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

US (DOT) & IATA: 1866

14.2 UN Proper Shipping Name

US (DOT) & IATA: Resin solution

14.3 Transport Hazard Class / Label

US (DOT) & IATA: 3 (3)

14.4 Packaging Group

US (DOT) & IATA: III

14.5 Environmental Hazards

No Data Available

14.6 Special Precautions for User

No Data Available

14.7 Other

Packing Instruction: 366 for cargo; 355 for passenger aircraft (for PG III)

HST Code / Schedule B #: 3208.10.0000

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**OSHA Hazards**

Flammable liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption

SARA 302 Components

To our knowledge, no chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Chemical</u>	<u>CAS Number</u>
Toluene	108-88-3
2-Butoxyethanol	111-76-2
Trade Secret (2)	< 1%
Trade Secret (3)	< 1%

Right To Know Components for Massachusetts, New Jersey, & Pennsylvania

<u>Chemical</u>	<u>CAS Number</u>
Toluene	108-88-3
Tetrahydrofuran	109-99-9
Dibutyltin dilaurate	77-58-77
Polyester Polyol	67815-82-1
Propylene Glycol Monomethyl Ether	108-65-6
Trade Secret (1)	NJ TSRN 800963-5554
Trade Secret (2)	< 1%
Trade Secret (3)	< 1%

CALIFORNIA PROPOSITION 65

This material contains Toluene (CAS # 108-88-3), a chemical known to the State of California to cause birth defects or other reproductive harm.

15.2 Chemical Safety Assessment

A chemical safety assessment was not carried out for this product

SECTION 16: OTHER INFORMATION**16.1 Further Information**

NEI has attempted to provide current and accurate information to the best of its knowledge. NEI makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person.

Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this Material Safety Datasheet, or in combination with any other product or process, is the responsibility of the user.

- END OF MSDS -